

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷: A61K 9/22, 47/36	A1	(11) International Publication Number: WO 00/48576 (43) International Publication Date: 24 August 2000 (24.08.00)
(21) International Application Number: PCT/NL00/00108 (22) International Filing Date: 21 February 2000 (21.02.00) (30) Priority Data: 99200472.1 19 February 1999 (19.02.99) EP (71) Applicant (for all designated States except US): UNIVER- SITEIT UTRECHT [NL/NL]; Heidelberglaan 8, NL-3584 CS Utrecht (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): HENNINK, Wilhel- mus, Everhardus [NL/NL]; Zuidplasmaan 120, NL-2743 CZ Waddinxveen (NL). VAN NOSTRUM, Cornelus, Franciscus [NL/NL]; Heilig-Kruisgildelaan 10, NL-5674 WG Nuenen (NL). DE JONG, Silvia, Johanna [NL/NL]; Wageningseberg 406, 3524 LZ Utrecht (NL). (74) Agent: OTTEVANGERS, S., U.; Vereenigde, Nieuwe Parklaan 97, NL-2587 BN The Hague (NL).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: STEREOCOMPLEX HYDROGELS (57) Abstract The invention relates to hydrogel compositions, which can be applied as biodegradable materials and to the processes to prepare such hydrogels. The hydrogel of the present invention comprises a stereocomplex gel structure which is the result of the interaction of oligomerized monomers of one chirality with that of oligomerized monomers of the opposite chirality, both grafted to hydrophilic polymers. The grafts form an interaction which is different from a covalent chemical interaction and thus provide the gel with the required coherence.		